

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37530

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01L 23/48, 23/16, 21/58, 21/60; C08K 03/08
 US CL : 257/777, 686; 437/209; 357/70; 252/511

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 257/777, 686; 437/209; 357/70; 252/511

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
H01L 23/16, 23/48, 23/52, 21/58; C09J 163/63/00

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-049220 A (NIPPON STEEL CHEM CO LTD) 20 February 2001 (20.02.2001), Abstract, Claims 1-5.	50-51
A		----- 1-31, 33-34, 45-49
X	JP 2000-239627 A (SUMITOMO BAKELITE CO LTD) 05 September 2000 (05.09.2000), Abstract, Para 0005.	50-51
Y		----- 1-31, 33-34, 45-49
X	JP 2000-309768 A (KOREA ADV. INST. OF SCI. TECH), 07 November 2000 (07.11.2000), Abstract, Claims 1, 3, 5.	50-51
Y		----- 1-31, 33-34, 45-49
Y	US 6,224,690 B1 (ANDRICACOS et al) 01 May 2001 (01.05.2001), Column-6, Table-1.	5-6, 8-9, 11-12, 14-15, 17-18, 21-22,
Y	US 6,465,893 B1 (KHANDROS et al) 15 October 2002, (15.10.2002), Abstract, Fig-14,	1-31, 33-34, 45-49
Y	US 5,323,060 A (FOGAL et al) 21 June 1994 (21.06.1994), Abstract, Fig-1, Column-1, Lines 1-66.	1-31, 33-34, 45-49

 Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

01 April 2005 (01.04.2005)

Date of mailing of the international search report

14 APR 2005

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